

## FIG. 1A

>33358 cDNA ORF 75-1046  
 GCGTCCGGACGCGTGGGTTATAACTCAGTGAAATTTACAGTCCTAGGACCCCTATACAGAGCATAAGC  
 CAAAATGGAAGATGGTCCTGTTTCTATGGCTTTAAAAACATTTTATTACAATGTTTGCTACGTTT  
 TTCTTTAAGCTTTTAATTAAAGTTTTTTGGCTCTCCTAACCCATTCTATATCGTCAAAGGAAATAGAA  
 AAGAAGCGGCTAGGATAGCAGAAAGATCTATGGTGGAATTTCAGATTGCTGGGCTGATCCTCCCACT  
 TCATGAAGCTGCAGCTCAGGGCGCTTACTGGCCCTTAAACTTTAATTGCACAAGGTGTCAATGTGAAC  
 CTTGTGACAAATTAAACCGGGTGCTTCTCTCCACGAGGCATGCCCTTGGAGGTCACTGGCCTGTGCCAAG  
 CCTTATTGGAAAAATGGTGCACACGTCAATGGAGTGACAGTTTACGGAGCCACACCCCTCTTCAATGCTTG  
 CTGCAGCGGACGTGCTGCATGTGTCAATGTGCTGGAGTTCGGAGCCAAAGGCCCAGTTGGAGGTGCAC  
 CTGGCCTCGCCCATCCATGAGGCAGTGAAGAGAGGTCAACAGAGAGTGATGGAGATCCTGCTGGCAAATA  
 ATGTTAACATTGACCATGAGGTGCCCTCAGCTCGGAACCTCCCTATATGTGGCCTGCACCTACAGAGGGT  
 AGACTGTGTGAAGAACTTCTAGAAATTAGGAGCCAGTGTGACCATGGCCAGTGGCTGGACACCCCACTC  
 CATGCTGCAGCGAGGCAGTCCAAATGTGGAGGTCAATCCACCTGCTAACCGACTATGGAGCTAACCTGAAGC  
 GTAGAAATGCTCAGGGCAAAGTGCCTTGATCTGGCGCTCCAAAAAGCAGCGTGGAGCAGGCACCTCTT  
 GCTCCGTGAAGGCCACCTGCTCTTTCCACGCTCTGCCGCTGTGTGTCCGGAAGTGTCTCGGTCCGAGCA  
 TGTCATCAAGCCATCCACAAGCTACATCTGCCAGAGCCACTCGA  
 ACGATTCTCTCTATACCAATAGTCCCTAAGTGTCTGGGAAGATACTTGGAATGACACAGATTGTTGTCT  
 GCTGTACCTAGAGTACCTAATGTAGAAGCTCAACAGCTTAGACTCCTAGTATCTTTAAATGAGMTCAGTC  
 GAAGTAAATCCCCCATGAGCTAGAACACTTGAGGAGTGGRAACTCCTGGTTAGTTTAAATGTTCTCATTA  
 CCAAGGGCAAGTAGAAACCATTTAGCTTTTAGCTCTTTGTGTTAAGAAACTTAAAGAACTGTGAAGT  
 AGAGTGAAACAATAGGCTGTTTTTTGATGATTCGGGATCTTCTTGTACCTAAAGTCAACATTCTGAAT  
 ATTGTATAGACACATATAAATTCAGGTGGATAAGATTATAACAAATGTTAGGTATTCCAAGATATGtct  
 tgatttagttccttcagcccttccccactttttcttTCCCTGAATAAAATCTGGTATAATT  
 TTGAAAAA  
 AAAAAAAAAAAAAA

## FIG. 1B

>33358 amino acids  
MEDGPVFGFKNI F I T M F A T F F F K L L I K V F L A L L T H E Y I V K G N R K E A A R I A E E I Y G G I S D C W A D R S P L H  
E A A A Q G R L L A L K T L I A Q G V N V N L V T I N R V S S L H E A C L G G H V A C A K A L L E N G A H V N G V T V H G A T P L F N A C C  
S G S A A C V N V L L E F G A K A Q L E V H L A S P I H E A V K R G H R E C M E I L L A N N V N I D H E V P Q L G T P L Y V A C T Y Q R V D  
C V K K L L E L G A S V D H G Q W L D T P L H A A A R Q S N V E V I H L L T D Y G A N L K R R N A Q G K S A L D L A A P K S S V E Q A L L L  
R E G P P A L S Q L C R L C V R K C L G R A C H Q A I H K L H L P E P L E R F L L Y Q .

FIG. 2A-1

	1	2	3	4	5	6	7	8	9	10	11	12
<b>A</b>	HMVECL	Fetal Brain	Bronchial Epithelium Mix (BEAS-2B)	Mesangial	Fetal Heart	LPS 24 hr Osteoblasts	A2780 WT	UCLA-R Lung Carcinoma	Erythroleukemia cells	Trachea	Testes (random-primed)	Placenta (random-primed)
<b>B</b>	HUVECL	Bronchial Epithelium	Cong. Heart Failure	T24 Ct1	Mammary Gland	Burkitt's Lymphoma	A2780 ADR	UCLA-S Lung Carcinoma	Embryonic Keratinocytes	ME180 IL-1 Cervical Carcinoma	Testes	Mammary Gland (random-primed)
<b>C</b>	HL60/S	Astrocytes	Cerebellum	T24 Treated	Nat. Killer Cells	Mammary Epithelium	Fetal Spleen	p65 Con+/-	SCC25 CDDP-Tongue Squamous Cell Carcinoma	ME 180 Control	RAJI (Burkitt's Lymphoma B cell)	Small Intestine (random-primed)
<b>D</b>	U937/A10P10	Prostate Epithelium	Pituitary	Prostate Fibroblast	Cong. Heart Failure (CHF)	Uterine Smooth Muscle, treated	Esophagus	p65 IL-1 +/-	SCC25 WT-Tongue Squamous Cell Carcinoma	MCP-1 Mast cell line	ST486 (Lymphoma B cell)	Fetal Liver (random-primed)

FIG. 2A-2

	1	2	3	4	5	6	7	8	9	10	11	12
E	U937/ A10p5 0	Primary Osteoblast	Aortic Endo- thelial	Bone Marrow	Prostate Smooth Muscle	Umbilical Smooth Muscle, treated	Fetal Liver	A549 con	Fetal Hypo- thalamus	HPKII	HL60 (Acute Pro- myelocytic Leukemia)	Skeletal Muscle (random- primed)
F	CaCo	Keratino- cytes	Fetal Kidney	Cong. Heart Failure (CHF <sub>c</sub> )	Thyroid	Bronchial Smooth Muscle	Fetal Skin	A549 IL-1	T cells, CD3 treated	Lung (random- primed)	Umbilical Smooth Muscle, treated (random- primed)	Stomach (random- primed)
G	HeLa	Melano- cytes	Fetal Liver	Adrenal Gland	LPS 1hr Osteoblasts	WT LNCap+ Casodex	Fetal Adrenal Gland	Fetal Testes	Tcells, CD3, IL-4/IL-10 treated	Heart (random- primed)	Uterine Smooth Muscle, treated (random- primed)	Spleen (random- primed)
H	HL60/Adr	Coronary Smooth Muscle Cells	Fetal Lung	Fetal Thymus	LPS 6hr Osteoblasts	WT LNCap+ Testos- terone	Midterm Placenta	Pulmonary Artery Smooth Muscle	T cells, CD3 IFN $\gamma$ /TFN $\alpha$ treated	Fetal Brain (random- primed)	Skin/ Adipose	Liver (random- primed)

FIG. 2B-1

	1	2	3	4	5	6	7	8	9	10	11	12
A	Kidney (random-primed)	Testes	Prostate	HMC-1 control (mast cell line)	Fetal Dorsal Spinal Cord	CHT127	erythro-blasts (jthMc)	spinal cord (ION3 (jthbd	HUVEC TGF-b (umbilical endo-thelium)	HUVEC Hypoxia (umbilical)	Spinal Chord (ION 3)	
B	Brain (random-primed)	K563 (RBC line)	Uterus	Hep-G2 (insulin-oma)	Normal Colon	CHT1221	skin PIT211, 212)	HUVEC control (jchPa)	human colon inflamm. bowel dis	Melanoma G361 cell line	Adult Bone Marrow CD34 + Cells	
C	HPK (random primed)	Lung	Mammary Gland	Normal Breast Epithelia	Colon to Liver Metastasis (CHT128)	normal breast	BMCD34+ (jyhMc)	W138 20hr serum starve emb. Lung	Th1 Cells	HUVEC untreated (umbilical endothelia)		
D	Uterus (random-primed)	Liver	Spleen	Normal Ovarian Epithelia	Colon to Liver Metastasis (CHT133)	PTH Osteo	ovarian ascities (johOB)	lung squamous cell carcinoma	Th2 Cells	IBD Colon (WUM 23)		

FIG. 2B-2

	1	2	3	4	5	6	7	8	9	10	11	12
E	Thymus (random- primed)	Heart	Small Intestine	Normal Megakaro- cytes	Colon Carcinoma (NDR109)	lung adeno- carcinoma (PIT245)	IBD colon (WUM6) (jbnha)	brain subcortical white matter	Prostate Tumor Xenograft A12	Trigeminal Ganglia		
F	9 week Fetus	Thymus	Retinal Pigmentosa Epithelia	Bone Marrow	Colon Carcinoma (NDR103)	lung squamous cell carcinoma PIT299	Cervical Cancer (johCe)	normal prostate (ziplox)	Prostate Tumor Xenograft K10	Lumbo- sacral Spinal Chord		
G	A549 control (random- primed)	Stomach	Retina	Th-1 induced T cell	Colon Carcinoma (NDR82)	d8 dendritic cells	Spinal cord (jlhbc)	ovarian epithelium tumor	Prostate Cancer to Liver Metastasis JHH3	Lumbo- sacral Dorsal Root Ganglia		
H	Salivary Gland	Skeletal Muscle	HMC-1 (mast cell line)	Th-2 induced T cell	Colon Carcinoma (NDR097)	Megakary- ocytes (jthxb)	DRG (ION6,7,8) (jlhxe)	HUVEC L- name (umbilical end.)	Prostate Cancer to Liver Metastasis JHH4	Dorsal Root Ganglia (ION 6,7&8)		

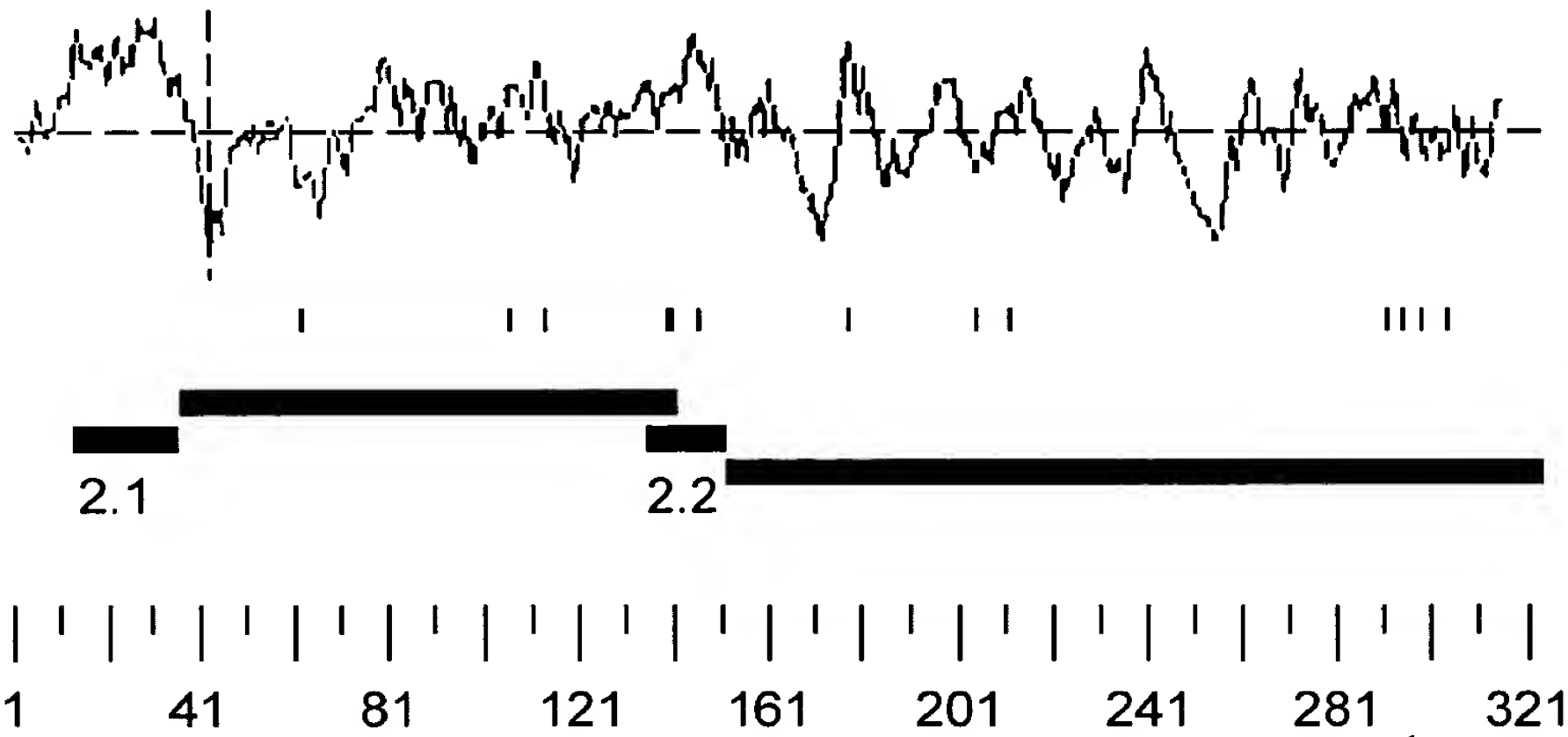
FIG. 3

PFAM

ank\_2a ank\_2a ank\_2a ank\_2a ank\_2a ank\_2a ank\_2a socs\_2

Cys

out  
TM  
ins



>33358  
MEDGPVFYGFKNIFITMFATFFFFKLLIKVFLALLTHFYIVKGNRKEAARIAEEIYGGISDCWADRSP  
LHEAAAQGRLLALKTLIAQGVNVNLVTINRVSSLHEACLGGHVACAKALLENGAHVNGVTVHGATPLFNACC  
SGSAACVNVLLLEFGAKAQLEVHLASPIHEAVKRGHRECMEILLANNVNIDHEVPQLGTPLYVACTYQ  
RVD CVKKLLELGASVDHGQWLDTPLHAAARQSNVEVIHLLTDYGANLKRRNAQGKSALDLAAPKSSVEQALL  
L REGPPALSQLCRLCVRKCLGRACHQAIHKLHLPEPLERFLLYQ.